## SEQUENCE LISTING

- (1) GENERAL INFORMATION
- (i) APPLICANT: Dasseux, Jean-Louis Sekul, Renate Buttner, Klaus Cornut, Isabelle Metz, Gunther Dufourcq, Jean
- (ii) TITLE OF THE INVENTION: APOLIPOPROTEIN A-I AGONISTS AND THEIR USE TO TREAT DYSLIPIDEMIC DISORDERS
- (iii) NUMBER OF SEQUENCES: 254
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: Pennie & Edmonds LLP
  - (B) STREET: 1155 Avenue of the Americas
  - (C) CITY: New York
  - (D) STATE: NY
  - (E) COUNTRY: USA
  - (F) ZIP: 10036-2811
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Diskette
  - (B) COMPUTER: IBM Compatible
  - (C) OPERATING SYSTEM: DOS
  - (D) SOFTWARE: FastSEQ Version 2.0
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: 08/940,095
  - (B) FILING DATE: 29-SEP-1997
  - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER:
  - (B) FILING DATE:
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: Coruzzi, Laura A
  - (B) REGISTRATION NUMBER: 30,742
  - (C) REFERENCE/DOCKET NUMBER: 009196-0004-999
- (ix) TELECOMMUNICATION INFORMATION:
  - (A) TELEPHONE: 650-493-4935
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  - (C) TELEX: 66141 PENNIE
  - (2) INFORMATION FOR SEQ ID NO:1:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: None

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- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 16
  - (D) OTHER INFORMATION: Xaa = Naphthylalanine
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Kaa 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:2:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Gly Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys Lys

- (2) INFORMATION FOR SEQ ID NO:3:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Trp

1 ... 5 10 15

Leu Lys Gln Lys Leu Lys

20

- (2) INFORMATION FOR SEQ ID NO:4:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala

5 10 15

Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:5:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 23 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1
  - (D) OTHER INFORMATION: Xaa = D-Pro
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Xaa Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala

1 5 10 15

Leu Lys Gln Lys Leu Lys Lys

20

- (2) INFORMATION FOR SEQ ID NO:6:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:7:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Pro Val Leu Asp Leu Phe Lys Glu Leu Leu Asn Glu Leu Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:8:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:9:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Pro Val Leu Asp Leu Phe Arg Glu Leu Gly Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:10:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 17
  - (D) OTHER INFORMATION: Xaa = Naphthylalanine
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 1 5 10 15 Xaa Lys Gln Lys Leu Lys 20

## (2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Pro Val Leu Asp Leu Phe Lys Glu Leu Glu Glu Leu Glu Ala

1 5 10 15

Leu Lys Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:12:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (x1) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala

1 5 10 15
Gly Lys Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:13:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Gly Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala

1 5 10 15

Leu Lys Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:14:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Non
- (ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 18
- (D) OTHER INFORMATION: Xaa = Orn
- (A) NAME/KEY: Other
- (B) LOCATION: 20
- (D) OTHER INFORMATION: Kaa = Orn
- (A) NAME/KEY: Other
- (B) LOCATION: 22
- (D) OTHER INFORMATION: Xaa = Orn
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 1 5 10 15 Leu Xaa Gln Xaa Leu Xaa 20

- (2) INFORMATION FOR SEQ ID NO:15:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

Pro Val Leu Asp Leu Phe Arg Glu Leu Trp Asn Glu Leu Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:16:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Pro Val Leu Asp Leu Leu Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala
1 5 10 15

Leu Lys Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:17:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

Pro Val Leu Glu Leu Phe Lys Glu Leu Leu Gln Glu Leu Leu Glu Ala 1 5 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:18:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Gly Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:19:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other(B) LOCATION: 1

  - (D) OTHER INFORMATION: Xaa = D-Pro
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

Xaa Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:20:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Pro Val Leu Asp Leu Phe Arg Glu Gly Leu Asn Glu Leu Leu Glu Ala 1 5 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:21:
- (i) SEQUENCE CHARACTERISTICS:

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- (A) LENGTH: 22 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1
  - (D) OTHER INFORMATION: Xaa = D-Pro
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

Xaa Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 10 1 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:22:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Gly Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:23:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

Pro Leu Leu Glu Leu Phe Lys Glu Leu Leu Gln Glu Leu Leu Glu Ala 10 5 1 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:24:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala

1 5 10 15

Leu Gln Lys Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:25:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

Pro Val Leu Asp Phe Phe Arg Glu Leu Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:26:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
    (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Leu 1 5 10 15
Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:27:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 14
  - (D) OTHER INFORMATION: Xaa = Naphthylalanine
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Xaa Glu Ala 10 5 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:28:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Trp Glu Ala 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:29:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

Ala Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 10 5 1 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:30:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 1...22

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- (D) OTHER INFORMATION: N-terminal dansylated peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu Lys Gln Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:31:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

Pro Val Leu Asp Leu Phe Leu Glu Leu Leu Asn Glu Xaa Leu Glu Ala 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:32:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

Xaa Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 10 Leu Lys Gln Lys Leu Lys . 20

- (2) INFORMATION FOR SEQ ID NO:33:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

Pro Val Leu Asp Leu Phe Arg Glu Lys Leu Asn Glu Leu Leu Glu Ala 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:34:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other (B) LOCATION: 5

  - (D) OTHER INFORMATION: Xaa = Naphthylalanine
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

Pro Val Leu Asp Xaa Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu Lys Gln Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:35:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

Pro Val Leu Asp Trp Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 10 1 Leu Lys Gln Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:36:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

Pro Leu Leu Glu Leu Leu Lys Glu Leu Leu Gln Glu Leu Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:37:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

Pro Val Leu Asp Leu Phe Arg Glu Trp Leu Asn Glu Leu Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:38:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Trp Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:39:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Leu Lys Ala 1 5 10 15 Leu Lys Lys Leu Lys 20

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(2) INFORMATION FOR SEQ ID NO:40:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

Pro Val Leu Asp Leu Phe Asn Glu Leu Leu Arg Glu Leu Leu Glu Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:41:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

Pro Val Leu Asp Leu Trp Arg Glu Leu Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:42:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Trp Glu Ala 1 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:43:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Trp Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:44:
- (i) SEOUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...22
  - (D) OTHER INFORMATION: All genetically encoded amino acids are in the D-configuration
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:45:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala 10 1 5 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:46:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

Pro Val Leu Asp Leu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:47:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 21 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala Leu 10 Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:48:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1
  - (D) OTHER INFORMATION: Xaa = D-Pro
  - (A) NAME/KEY: Other
  - (B) LOCATION: 2
  - (D) OTHER INFORMATION: Xaa = D-Val
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:

Xaa Xaa Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala

1 5 10 15

Leu Lys Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:49:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:

Pro Val Leu Asp Leu Phe Arg Asn Leu Leu Glu Lys Leu Leu Glu Ala

1 5 10 15

Leu Glu Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:50:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Trp Glu Xaa Leu Glu Ala

1 5 10 15

Leu Lys Gln Lys Leu Lys
20

(2) INFORMATION FOR SEQ ID NO:51:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid

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- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FBATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:

Pro Val Leu Asp Leu Phe Trp Glu Leu Leu Asn Glu Xaa Leu Glu Ala 10 5 Leu Lys Gln Lys Leu Lys . 20

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- (2) INFORMATION FOR SEQ ID NO:52:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
  (ix) FEATURE:
- - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:

Pro Val Trp Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:53:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

Val Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala . 10 5 Leu Lys Gln Lys Leu Lys 20

(2) INFORMATION FOR SEQ ID NO:54:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Trp Leu Glu Ala Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:55:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 amino acids

  - (B) TYPE: amino acid
    (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:

Pro Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu Lys Gln 1 5 15 Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:56:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids (B) TYPE: amino acid

  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 1 5 Leu Lys Gln Lys Lys 20

- (2) INFORMATION FOR SEQ ID NO:57:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

Pro Val Leu Asp Leu Phe Arg Asn Leu Leu Glu Glu Leu Leu Lys Ala

· 15 10 Leu Glu Gln Lys Leu Lys **20** 

- (2) INFORMATION FOR SEQ ID NO:58:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 21 amino acids

  - (B) TYPE: amino acid
    (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala 10 Leu Lys Gln Lys Leu 20

- (2) INFORMATION FOR SEQ ID NO:59:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:

Leu Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 10 Leu Lys Gln Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:60:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu Lys Gln

(2) INFORMATION FOR SEQ ID NO:61:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

Pro Val Leu Asp Glu Phe Arg Trp Lys Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:62:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:

Pro Val Leu Asp Glu Trp Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:63:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:

Pro Val Leu Asp Phe Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala 5 Leu Lys Gln Lys Leu Lys 20

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- (2) INFORMATION FOR SEQ ID NO:64:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid

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- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:

Pro Trp Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala 10 5 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:65:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 21 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
  (ix) FEATURE:
- - (A) NAME/KEY: Other
  - (B) LOCATION: 12
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:

Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala Leu 10 Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:66:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:

Pro Val Leu Asp Leu Phe Arg Asn Leu Leu Glu Glu Leu Leu Glu Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:67:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 21 amino acids

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- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu 1 5 10 15
Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:68:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:

Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Lys Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:69:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:

Pro Val Leu Asp Glu Phe Arg Lys Lys Leu Asn Glu Xaa Leu Glu Ala

1 10 15
Leu Lys Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:70:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
    - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:

Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Tyr Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:71:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 14
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Leu Xaa Glu Ala 1 5 10 15 · Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:72:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 13
- (D) OTHER INFORMATION: Xaa = Aib

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Xaa Leu Trp Ala 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:73:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other

  - (B) LOCATION: 13 (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:

Pro Val Leu Asp Glu Phe Trp Glu Lys Leu Asn Glu Xaa Leu Glu Ala 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:74:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

Pro Val Leu Asp Lys Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala 10 15 Leu Lys Gln Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:75:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala 5 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:76:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:

Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Phe Glu Xaa Leu Glu Ala Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:77:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
  (ix) FEATURE:
- - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Lys Xaa Leu Glu Ala Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:78:
- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:

Pro Val Leu Asp Glu Phe Arg Asp Lys Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:79:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:

Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:80:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

Pro Val Leu Asp Leu Phe Glu Arg Leu Leu Asn Glu Leu Leu Glu Ala

1 5 10 15

Leu Gln Lys Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:81:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Trp Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:82:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 11
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:

Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala Leu Lys
1 5 10 15
Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:83:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Trp Gln Lys Leu Lys 20

(2) INFORMATION FOR SEQ ID NO:84:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

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- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Leu Leu Glu Ala

1 5 10 15

Leu Lys Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:85:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 21 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:

Pro Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu 1 5 10 15
Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:86:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:

Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Asp Glu Leu Leu Asn Ala 1 5 10 15 Leu Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:87:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...22

- (D) OTHER INFORMATION: All amino acids are in the D-configuration
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

Pro Leu Leu Glu Leu Lys Glu Leu Leu Gln Glu Leu Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:88:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

Pro Val Leu Asp Lys Phe Arg Glu Leu Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:89:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Trp Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:90:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 10
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:

Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala Leu Lys Gln
1 5 10 15
Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:91:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:92:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

Pro Val Leu Asp Glu Phe Arg Glu Leu Tyr Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:93:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Lys Ala Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:94:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Ala Leu Glu Ala 1 10 Leu Lys Gln Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:95:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Leu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

(2) INFORMATION FOR SEQ ID NO:96:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

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- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...22
  - (D) OTHER INFORMATION: All genetically encoded amino acids are in the D-configuration

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- (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:97:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 15 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu

1 10 15

- (2) INFORMATION FOR SEQ ID NO:98:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Glu Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

(2) INFORMATION FOR SEQ ID NO:99:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:

Lys Leu Lys Gln Lys Leu Ala Glu Leu Leu Glu Asn Leu Leu Glu Arg

1 5 10 15

Phe Leu Asp Leu Val Pro
20

- (2) INFORMATION FOR SEQ ID NO:100:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...22
  - (D) OTHER INFORMATION: All amino acids are in the D-configuration
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:101:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid(C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Trp Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

(2) INFORMATION FOR SEQ ID NO:102:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Leu Xaa Leu Glu Ala 10 Leu Lys Glu Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:103:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

  - (B) TYPE: amino acid
    (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:

Pro Val Leu Asp Glu Phe Arg Glu Leu Leu Asn Glu Glu Leu Glu Ala 1 5 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:104:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 15 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:

Pro Leu Leu Asn Glu Leu Leu Glu Ala Leu Lys Gln Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:105:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

Pro Ala Ala Asp Ala Phe Arg Glu Ala Ala Asn Glu Ala Ala Glu Ala 10 Ala Lys Gln Lys Ala Lys 20

- (2) INFORMATION FOR SEQ ID NO:106:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

  - (B) TYPE: amino acid(C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:

Pro Val Leu Asp Leu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:107:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...22
  - (D) OTHER INFORMATION: All amino acids are in the D-configuration
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:

Lys Leu Lys Gln Lys Leu Ala Glu Leu Leu Glu Asn Leu Leu Glu Arg 10 Phe Leu Asp Leu Val Pro 20

- (2) INFORMATION FOR SEQ ID NO:108:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:

Pro Val Leu Asp Leu Phe Arg Trp Leu Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:109:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

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- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Arg Leu Glu Ala

1 5 10 15

Leu Lys Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:110:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
  - (A) NAME/KEY: Other
  - (B) LOCATION: 14
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Xaa Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:111:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: N ne
- (ix) FEATURE:

(A) NAME/KEY: Other

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- (B) LOCATION: 13
- (D) OTHER INFORMATION: Kaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Trp Glu Xaa Trp Glu Ala 5 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:112:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Ser Glu Ala 15 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:113:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Pro Leu Glu Ala 10 1 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:114:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: N ne
- (ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 13
- (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Met Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:115:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:

Pro Lys Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala

1 5 10 15

Leu Lys Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:116:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116:

Pro His Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:117:
- (1) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

- (B) TYPE: amino acid
- (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 13
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

Pro Glu Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala 1 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:118:
- . (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear

  - (ii) MOLECULE TYPE: None
  - (ix) FEATURE:
    - (A) NAME/KEY: Other
    - (B) LOCATION: 13
    - (D) OTHER INFORMATION: Xaa = Aib
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Xaa Leu Glu Ala Leu Glu Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:119:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
  (ix) FEATURE:
- - (A) NAME/KEY: Other
  - (B) LOCATION: 17
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Ala

Xaa Lys Gln Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:120:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 16
  - (D) OTHER INFORMATION: Xaa = Aib
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Xaa 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:121:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asp Glu Glu Leu Glu Ala

1 5 10 15

Leu Trp Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:122:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
- (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:

Pro Val Leu Asp Glu Phe Arg Glu Lys Leu Asn Glu Glu Leu Glu Trp

1 5 10 15

Leu Lys Gln Lys Leu Lys
20

(2) INFORMATION FOR SEQ ID NO:123:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

  - (B) TYPE: amino acid (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:

Gln Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:124:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

  - (B) TYPE: amino acid(C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 18
  - (D) OTHER INFORMATION: Xaa = Orn
  - (A) NAME/KEY: Other
  - (B) LOCATION: 20
  - (D) OTHER INFORMATION: Xaa = Orn
  - (A) NAME/KEY: Other
  - (B) LOCATION: 22
  - (D) OTHER INFORMATION: Xaa = Orn
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:

Pro Val Leu Asp Leu Phe Xaa Glu Leu Leu Asn Glu Leu Leu Glu Ala Leu Xaa Gln Xaa Leu Xaa 20

- (2) INFORMATION FOR SEQ ID NO:125:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:

Asn Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 1 . 5 10

Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:126:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Gly Glu Ala

1 5 10 15

Leu Lys Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:127:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:127:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Leu 1 5 10 15

Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:128:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:128:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Phe

1 5 10 15

Leu Lys Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:129:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: None

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:129:

Pro Val Leu Glu Leu Phe Asn Asp Leu Leu Arg Glu Leu Leu Glu Ala 1 5 10 15 Leu Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:130:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:130:

Pro Val Leu Glu Leu Phe Asn Asp Leu Leu Arg Glu Leu Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:131:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:131:

Pro Val Leu Glu Leu Phe Lys Glu Leu Leu Asn Glu Leu Leu Asp Ala 1 5 10 15 Leu Arg Gln Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:132:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:132:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Asn Leu Leu Glu Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

(2) INFORMATION FOR SEQ ID NO:133:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

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- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:133:

Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Glu Asp Leu Leu Gln Ala

1 5 10 15

Leu Asn Lys Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:134:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:134:

Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Glu Asp Leu Leu Lys Ala 1 5 10 15 Leu Asn Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:135:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:135:

Asp Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

(2) INFORMATION FOR SEQ ID NO:136:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:136:

Pro Ala Leu Glu Leu Phe Lys Asp Leu Leu Glu Glu Leu Glu Ala

10

15

Leu Lys Gln Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:137:
- (i) SEQUENCE CHARACTERISTICS:

1

- (A) LENGTH: 22 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 17
  - (D) OTHER INFORMATION: Xaa = Naphthylalanine
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:137:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala
1 5 10 15

Xaa Lys Gln Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:138:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:138:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Trp

1 5 10 15

Leu Lys Gln Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:139:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:139:

Pro Val Leu Asp Leu Phe Arg Glu Leu Trp Asn Glu Gly Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys

(2) INFORMATION FOR SEQ ID NO:140:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
    (B) TYPE: amino acid

  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 18
  - (D) OTHER INFORMATION: Xaa = Orn
  - (A) NAME/KEY: Other
  - (B) LOCATION: 20
  - (D) OTHER INFORMATION: Xaa = Orn
  - (A) NAME/KEY: Other
  - (B) LOCATION: 22
  - (D) OTHER INFORMATION: Xaa = Orn
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:140:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala 5 10 Leu Xaa Gln Xaa Leu Xaa 20

- (2) INFORMATION FOR SEQ ID NO:141:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids (B) TYPE: amino acid

  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:141:

Pro Val Leu Asp Phe Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala 10 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:142:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:142:

Pro Val Leu Glu Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala 5 10

Leu Lys Gln Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:143:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...22
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:143:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Gly Leu Glu Ala 1 5 10 15 Leu Lys Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:144:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1
  - (D) OTHER INFORMATION: Xaa = D-Pro
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:144:

Xaa Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:145:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:145:

Gly Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala

10 . 15

Leu Gln Lys Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:146:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:146:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala

1 5 10 15

Leu Gln Lys Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:147:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Phe Asp Ala 1 5 10 15

Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:148:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Gly Asp Ala
1 5 10 15
Leu Gln Lys Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:149:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:149:

Pro Val Leu Glu Leu Phe Glu Asn Leu Trp Glu Arg Leu Leu Asp Ala 1 5 10 15 Leu Gln Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:150:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:150:

Pro Leu Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:151:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:151:

Pro Val Leu Glu Leu Phe Glu Asn Leu Gly Glu Arg Leu Leu Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:152:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:152:

Pro Val Phe Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys

(2) INFORMATION FOR SEQ ID NO:153:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:153:

Ala Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala

1 5 10 15

Leu Gln Lys Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:154:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:154:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Gly Leu Asp Ala

1 5 10 15

Leu Gln Lys Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:155:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:155:

Pro Val Leu Glu Leu Phe Leu Asn Leu Trp Glu Arg Leu Leu Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:156:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:156:

Pro Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Leu Asp Ala

10 · 15

Leu Gln Lys Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:157:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:157:

Pro Val Leu Glu Phe Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:158:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 22 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: None
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:158:

Pro Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Leu Asp Trp

1 5 10 15

Leu Gln Lys Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:159:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:159:

Pro Val Leu Asp Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:160:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:160:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Trp

1 5 10 15

Leu Gln Lys Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:161:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:161:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Glu Ala

1 5 10 15

Leu Gln Lys Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:162:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:162:

Pro Val Leu Glu Leu Phe Glu Asn Trp Leu Glu Arg Leu Leu Asp Ala
1 5 10 15
Leu Gln Lys Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:163:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:163:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Trp Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

(2) INFORMATION FOR SEQ ID NO:164:

(i) SEQUENCE CHARACTERISTICS:

}

- (A) LENGTH: 22 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:164:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala

1 5 10 15

Trp Gln Lys Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:165:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid-
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:165:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Leu 1 5 10 15

Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:166:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:166:

Pro Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Lys Leu Leu Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:167:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:167:

Pro Val Leu Glu Leu Phe Glu Asn Gly Leu Glu Arg Leu Leu Asp Ala

1 5 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:168:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:168:

Pro Val Leu Glu Leu Phe Glu Gln Leu Leu Glu Lys Leu Leu Asp Ala

1 5 10 15

Leu Gln Lys Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:169:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:169:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Lys Leu Leu Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:170:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 12
  - (D) OTHER INFORMATION: Xaa = Orn
  - (A) NAME/KEY: Other
  - (B) LOCATION: 19
  - (D) OTHER INFORMATION: Xaa = Orn
  - (A) NAME/KEY: Other
    - (B) LOCATION: 20
    - (D) OTHER INFORMATION: Xaa = Orn

- (A) NAME/KEY: Other
- (B) LOCATION: 22
- (D) OTHER INFORMATION: Xaa = Orn
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:170:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Xaa Leu Leu Asp Ala 1 5 10 15 Leu Gln Xaa Xaa Leu Xaa 20

- (2) INFORMATION FOR SEQ ID NO:171:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:171:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Lys Leu Leu Asp Leu

1 5 10 15

Leu Gln Lys Lys Leu Lys
20

- (2) INFORMATION FOR SEQ ID NO:172:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:172:

Pro Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Gly Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:173:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION; SEQ ID NO:173:

Pro Val Leu Asp Leu Phe Asp Asn Leu Leu Asp Arg Leu Leu Asp Leu 1 10 15 Leu Asn Lys Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:174:
- (1) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other

  - (B) LOCATION: 1...22
    (D) OTHER INFORMATION: All amino acids are in the D-configuration
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:174:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:175:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

  - (B) TYPE: amino acid(C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:175:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Glu Leu 10 5 1 Leu Asn Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:176:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

  - (B) TYPE: amino acid(C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:176:

Pro Val Leu Glu Leu Trp Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala 5 10 Leu Gln Lys Lys Leu Lys

(2) INFORMATION FOR SEQ ID NO:177:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

  - (B) TYPE: amino acid (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:177:

Gly Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Leu Asp Ala Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:178:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:178:

Pro Val Leu Glu Leu Phe Asp Asn Leu Leu Glu Lys Leu Leu Glu Ala 1 Leu Gln Lys Lys Leu Arg 20

- (2) INFORMATION FOR SEQ ID NO:179:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:179:

Pro Val Leu Glu Leu Phe Asp Asn Leu Leu Glu Arg Leu Leu Asp Ala 10 5 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:180:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:180:

Pro Val Leu Glu Leu Phe Asp Asn Leu Leu Asp Lys Leu Leu Asp Ala

10

15

Leu Gln Lys Lys Leu Arg 20

- (2) INFORMATION FOR SEQ ID NO:181:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:181:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Trp Leu Asp Ala 10 1 5 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:182:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:182:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Lys Leu Leu Glu Ala Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:183:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids

  - (B) TYPE: amino acid (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:183:

Pro Leu Leu Glu Leu Phe Glu Asn Leu Leu Glu Lys Leu Leu Asp Ala 5 1 Leu Gln Lys Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:184:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:184:

Pro Val Leu Glu Leu Phe Leu Asn Leu Leu Glu Arg Leu Leu Asp Ala 1 5 10 15 Trp Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:185:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 19
  - (D) OTHER INFORMATION: Xaa = Orn
  - (A) NAME/KEY: Other
  - (B) LOCATION: 20
  - (D) OTHER INFORMATION: Xaa = Orn
  - (A) NAME/KEY: Other
  - (B) LOCATION: 22
  - (D) OTHER INFORMATION: Xaa = Orn
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:185:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala 1 10 15 Leu Gln Xaa Xaa Leu Xaa

- (2) INFORMATION FOR SEQ ID NO:186:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:186:

Pro Val Leu Glu Leu Phe Glu Gln Leu Leu Glu Arg Leu Leu Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:187:
- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:187:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala 1 5 10 15 Leu Asn Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:188:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:188:

Pro Val Leu Glu Leu Phe Glu Asn Leu Leu Asp Arg Leu Leu Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:189:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:189:

Asp Val Leu Glu Leu Phe Glu Asn Leu Leu Glu Arg Leu Leu Asp Ala 1 5 10 15 Leu Gln Lys Lys Leu Lys 20

- (2) INFORMATION FOR SEQ ID NO:190:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:190:

Pro Val Leu Glu Phe Trp Asp Asn Leu Leu Asp Lys Leu Leu Asp Ala 1 10 15 Leu Gln Lys Lys Leu Arg 20

- (2) INFORMATION FOR SEQ ID NO:191:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids

  - (B) TYPE: amino acid
    (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:191:

Pro Val Leu Asp Leu Leu Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys 10 1 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:192:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids

  - (B) TYPE: amino acid(C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192:

Pro Val Leu Asp Leu Phe Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys 10 5 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:193:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18

- (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:

1

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys 1 5 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:194:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:194:

Pro Val Leu Glu Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys 10 5 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:195:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:195:

Pro Val Leu Glu Leu Phe Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys 15 1 5 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:196:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
    (B) TYPE: amino acid

  - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

}

- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:196:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Asn Lys

1 5 10 15

Leu Lys

- (2) INFORMATION FOR SEQ ID NO:197:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:197:

Pro Leu Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys

1 10 15

Leu Lys

- (2) INFORMATION FOR SEQ ID NO:198:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:198:

Gly Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys

1 5 10 15

Leu Lys

- (2) INFORMATION FOR SEQ ID NO:199:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids

1

- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:199:

Pro Val Leu Asp Leu Phe Arg Glu Leu Trp Glu Glu Leu Lys Gln Lys 10 1 5 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:200:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
    (B) TYPE: amino acid

  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:200:

Asn Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys 10 1 5 Leu Lys .

- (2) INFORMATION FOR SEQ ID NO:201:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:201:

Pro Leu Leu Asp Leu Phe Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys

1 5 10 15

Leu Lys

- (2) INFORMATION FOR SEQ ID NO:202:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:202:

Pro Ala Leu Glu Leu Phe Lys Asp Leu Leu Glu Glu Leu Arg Gln Lys

1 5 10 15

Leu Arg

- (2) INFORMATION FOR SEQ ID NO:203:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:203:

Ala Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys

1 5 10 15

Leu Lys

- (2) INFORMATION FOR SEQ ID NO:204:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: N ne

## (ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 1...18

1

- (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:204:

Pro Val Leu Asp Phe Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys 1 5 10 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:205:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other

  - (B) LOCATION: 1...18
    (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:205:

Pro Val Leu Asp Leu Phe Arg Glu Trp Leu Glu Glu Leu Lys Gln Lys 1 5 10 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:206:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:206:

Pro Leu Leu Glu Leu Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys 1 5 10 Leu Lys

(2) INFORMATION FOR SEQ ID NO: 207:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid

}

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:

  - (A) NAME/KEY: Other
    (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:207:

Pro Val Leu Glu Leu Leu Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys 10 5 1 Leu Lvs

- (2) INFORMATION FOR SEQ ID NO:208:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:208:

Pro Ala Leu Glu Leu Phe Lys Asp Leu Leu Glu Glu Leu Arg Gln Arg 10 1 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:209:
- .... (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: None
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:209:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Gln Lys 10 Leu Lys

(2) INFORMATION FOR SEQ ID NO:210:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids

)

- (B) TYPE: amino acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:210:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys

1 5 10 15

Leu Lys

. 1

- (2) INFORMATION FOR SEQ ID NO:211:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (A) NAME/KEY: Other
  - (B) LOCATION: 14
  - (D) OTHER INFORMATION: Xaa = Orn
  - (A) NAME/KEY: Other
  - (B) LOCATION: 16
  - (D) OTHER INFORMATION: Xaa = Orn
  - (A) NAME/KBY: Other
  - (B) LOCATION: 18
  - (D) OTHER INFORMATION: Xaa = Orn
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:211:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Xaa Gln Xaa 1 5 10 15 Leu Xaa

- (2) INFORMATION FOR SEQ ID NO:212:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None

## (ix) FEATURE:

(A) NAME/KEY: Other

1

- (B) LOCATION: 1...18
- (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (A) NAME/KEY: Other
- (B) LOCATION: 7
- (D) OTHER INFORMATION: Xaa = Orn
- (A) NAME/KEY: Other
- (B) LOCATION: 14
- (D) OTHER INFORMATION: Xaa = Orn
- (A) NAME/KEY: Other(B) LOCATION: 16
- (D) OTHER INFORMATION: Xaa = Orn
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:212:

Pro Val Leu Asp Leu Phe Xaa Glu Leu Leu Glu Glu Leu Xaa Gln Xaa 5 1 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:213:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:213:

Pro Ala Leu Glu Leu Phe Lys Asp Leu Leu Glu Phe Arg Gln Arg 1 5 10 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:214:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FRATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 1...18
- (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (A) NAME/KEY: Other
- (B) LOCATION: 1
- (D) OTHER INFORMATION: D-configuration of Pro
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:214:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys 10 1 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:215:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids

  - (B) TYPE: amino acid (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:215:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Trp Lys Gln Lys 5 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:216:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:216:

Pro Val Leu Glu Leu Phe Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys 10 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:217:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:217:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Leu Leu Lys Gln Lys 5 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:218:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids

  - (B) TYPE: amino acid
    (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- ... (ii) MOLECULE TYPE: None
- \_ (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:218:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Leu Gln Lys 5 1 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:219:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:219:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Trp Gln Lys 10 5 1 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:220:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:220:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Gln Lys Lys Leu Lys

- (2) INFORMATION FOR SEQ ID NO:221:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:

  - (A) NAME/KEY: Other (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:221:

Asp Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys 15 1 5 10 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:222:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:222:

Pro Val Leu Asp Ala Phe Arg Glu Leu Leu Glu Ala Leu Leu Gln Leu 10 5 1 Lys Lys

- (2) INFORMATION FOR SEQ ID NO:223:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:223:

Pro Val Leu Asp Ala Phe Arg Glu Leu Leu Glu Ala Leu Ala Gln Leu 5 Lys Lys

- (2) INFORMATION FOR SEQ ID NO:224:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:224:

Pro Val Leu Asp Leu Phe Arg Glu Gly Trp Glu Glu Leu Lys Gln Lys 10 1 5 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:225:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:225:

Pro Val Leu Asp Ala Phe Arg Glu Leu Ala Glu Ala Leu Ala Gln Leu 10 5 1 Lys Lys

- (2) INFORMATION FOR SEQ ID NO:226:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids

  - (B) TYPE: amino acid
    (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:226:

Pro Val Leu Asp Ala Phe Arg Glu Leu Gly Glu Ala Leu Leu Gln Leu 5 10 Lys Lys

- (2) INFORMATION FOR SEQ ID NO:227:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None

## (ix) FEATURE:

- (A) NAME/KEY: Other(B) LOCATION: 1...18
- (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:227:

Pro Val Leu Asp Leu Phe Arg Glu Leu Gly Glu Glu Leu Lys Gln Lys

1 10 15

Leu Lys

- (2) INFORMATION FOR SEQ ID NO:228:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:228:

Pro Val Leu Asp Leu Phe Arg Glu Gly Leu Glu Glu Leu Lys Gln Lys

1 10 15

Leu Lys

- (2) INFORMATION FOR SEQ ID NO:229:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:229:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Gly Lys Gln Lys

1 10 15

Leu Lys

(2) INFORMATION FOR SEQ ID NO:230:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid

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- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:230:

Pro Val Leu Glu Leu Phe Glu Arg Leu Leu Glu Asp Leu Gln Lys Lys 10 1 Leu Lys

1

- (2) INFORMATION FOR SEQ ID NO:231:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:231:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Lys Leu Glu Gln Lys 5 10 1 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:232:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:232:

Pro Leu Leu Glu Leu Phe Lys Glu Leu Leu Glu Glu Leu Lys Gln Lys 10 1 5 Leu Lys

- (2) INFORMATION FOR SEQ ID NO:233:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: (B) TYPE:

  - (C) STRANDEDNESS: (D) TOPOLOGY:

- (ii) MOLECULE TYPE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:233: This sequence has been intentionally skipped

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- (2) INFORMATION FOR SEQ ID NO:234:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH:
  - (B) TYPE:
  - (C) STRANDEDNESS:
  - (D) TOPOLOGY:
- (ii) MOLECULE TYPE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:234: This sequence has been intentionally skipped
  - (2) INFORMATION FOR SEQ ID NO:235:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH:
    - (B) TYPE:
    - (C) STRANDEDNESS:
    - (D) TOPOLOGY:
  - (ii) MOLECULE TYPE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:235: This sequence has been intentionally skipped
  - (2) INFORMATION FOR SEQ ID NO:236:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH:

    - (B) TYPE: (C) STRANDEDNESS:
    - (D) TOPOLOGY:
  - (ii) MOLECULE TYPE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:236: This sequence has been intentionally skipped
  - (2) INFORMATION FOR SEQ ID NO:237:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 18 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:237:

Leu Asp Asp Leu Leu Gln Lys Trp Ala Glu Ala Phe Asn Gln Leu Leu 10 Lys Lys

- (2) INFORMATION FOR SEQ ID NO:238:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
    - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:238:

Glu Trp Leu Lys Ala Phe Tyr Glu Lys Val Leu Glu Lys Leu Lys Glu 10 1 Leu Phe

- (2) INFORMATION FOR SEQ ID NO:239:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
    (B) TYPE: amino acid

  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:239:

Glu Trp Leu Glu Ala Phe Tyr Lys Lys Val Leu Glu Lys Leu Lys Glu 10 5 1 Leu Phe

- (2) INFORMATION FOR SEQ ID NO:240:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None

## (ix) FEATURE:

- (A) NAME/KEY: Other
- (B) LOCATION: 1...18
- (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:240:

Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu 10 1 Ala Phe

- (2) INFORMATION FOR SEQ ID NO:241:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:241:

Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Phe Glu Lys Phe Lys Glu 10 1 Phe Phe

- (2) INFORMATION FOR SEQ ID NO:242:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:242:

Gly Ile Lys Lys Phe Leu Gly Ser Ile Trp Lys Phe Ile Lys Ala Phe 10 Val Gly

- (2) INFORMATION FOR SEQ ID NO:243:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:243:

Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Phe Lys Glu 10 5

## Ala Phe

- (2) INFORMATION FOR SEQ ID NO:244:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:244:

Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu 10 5 Ala Phe

- (2) INFORMATION FOR SEQ ID NO:245:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:245:

Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Phe Glu Lys Phe Lys Glu 10 1 Phe Phe

- (2) INFORMATION FOR SEQ ID NO:246:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:246:

Glu Trp Leu Glu Ala Phe Tyr Lys Lys Val Leu Glu Lys Leu Lys Glu 10 1 5 Leu Phe

- (2) INFORMATION FOR SEQ ID NO:247:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:247:

Asp Trp Phe Lys Ala Phe Tyr Asp Lys Phe Phe Glu Lys Phe Lys Glu 10 Phe Phe

- (2) INFORMATION FOR SEQ ID NO:248:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:248:

Glu Trp Leu Lys Ala Phe Tyr Glu Lys Val Leu Glu Lys Leu Lys Glu , 5 Leu Phe

- (2) INFORMATION FOR SEQ ID NO:249:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:249:

Glu Trp Leu Lys Ala Glu Tyr Glu Lys Val Glu Glu Lys Leu Lys Glu 5 1 Leu Phe

- (2) INFORMATION FOR SEQ ID NO:250:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18

- (D) OTHER INFORMATION: N-t rminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:250:

Glu Trp Leu Lys Ala Glu Tyr Glu Lys Val Leu Glu Lys Leu Lys Glu 5 1 Leu Phe

- (2) INFORMATION FOR SEQ ID NO:251:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 amino acids
    (B) TYPE: amino acid
    (C) STRANDEDNESS: single

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- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...18
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:251:

Glu Trp Leu Lys Ala Phe Tyr Lys Lys Val Leu Glu Lys Leu Lys Glu 10 1 Leu Phe

- (2) INFORMATION FOR SEQ ID NO:252:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 15 amino acids

  - (B) TYPE: amino acid (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...15
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:252:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Gln Lys Leu Lys 5 10

- (2) INFORMATION FOR SEQ ID NO:253:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 16 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...16
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:253:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Glu Leu Lys Gln Lys
1 10 15

- (2) INFORMATION FOR SEQ ID NO:254:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 16 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...16
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:254:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Lys Leu Lys Gln Lys

1 10 15

- (2) INFORMATION FOR SEQ ID NO:255:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 15 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...15
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:255:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Lys Leu Gln Lys
1 5 10 15

- (2) INFORMATION FOR SEQ ID NO:256:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 16 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: None

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- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...16
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:256:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Glu Ala Leu Lys Gln Lys 10

- (2) INFORMATION FOR SEQ ID NO:257:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 16 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other (B) LOCATION: 1...16

  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:257:

Pro Val Leu Asp Leu Phe Glu Asn Leu Leu Glu Arg Leu Lys Gln Lys

- (2) INFORMATION FOR SEQ ID NO:258:
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 16 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: None
- (ix) FEATURE:
  - (A) NAME/KEY: Other
  - (B) LOCATION: 1...16
  - (D) OTHER INFORMATION: N-terminal acetylated and C-terminal amidated
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:258:

Pro Val Leu Asp Leu Phe Arg Glu Leu Leu Asn Glu Leu Lys Gln Lys 10